## Claim Amendments:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Original) A method comprising the steps of: receiving first data associated with a block of data at a video processor; when in a first mode of operation, accessing table data in a table in a first manner to perform a first transform of the first data; and when in a second mode of operation, accessing table data in the table in a second manner to perform a second transform of the first data, wherein the second transform is an inverse transform relative to the first transform.
- 2. (Original) The method as in Claim 1, wherein the block of video data is associated with 8x8 image data.
- 3. (Original) The method as in Claim 1, wherein the block of video data is associated with 2-4-8 image data.
- 4. (Original) The method as in Claim 1, further including the step of determining one of the first mode of operation or the second mode of operation based on a tag associated with the first data, wherein the tag identifies a transform associated with the first data.
- 5. (Original) The method as in Claim 1, wherein accessing in a first manner includes accessing the table data in the table in a row-major scheme and accessing in a second manner includes accessing the table data in the table in a column-major scheme.
- 6. (Original) The method as in Claim 1, wherein the table includes a discrete cosine transform matrix.
- 7. (Original) The method as in Claim 6, wherein the first transform includes a forward discrete cosine transform and the second transform includes an inverse discrete cosine transform.

- 8. (Original) The method as in Claim 1, wherein the first and second transform are performed using common hardware.
  - (Currently Amended) A method comprising the steps of:

receiving data associated with a block of data at a video processor;

- when the block of data is of a first type, providing a first table to a transform engine to transform the data; and
- when the block of data is of a second type, providing a second table to the transform engine to transform the data-
- when in a first mode of operation, accessing one of the first table or the second table in a first manner to perform a first transform; and
- when in a second mode of operation, accessing one of the first table or the second table in a second manner to perform a second transform, wherein the second transform is an inverse transform relative to the first transform.

## 10. (Canceled)

- 11. (Currently amended) The method as in Claim [[10]]2, wherein accessing in a first manner includes accessing one of the first table or the second table using a row-major scheme and accessing in a second manner includes accessing one of the first table or the second table using a column-major scheme.
- 12. (Original) The method as in Claim 9, further including the step of determining the type of data.

- 13. (Original) The method as in Claim 12, wherein motion estimation is performed to determine the type of data.
- 14. (Original) The method as in Claim 12, wherein a tag associated with the block of data is used to determine the type of data.
- 15. (Original) The method as in Claim 9, wherein the first type includes 8-8 image data and the second type includes 2-4-8 image data.
- 16. (Original) The method as in Claim 9, wherein the first table includes a first DCT matrix associated with the first type and the second table includes a second DCT matrix associated with the second type.
  - 17. (Withdrawn) A method comprising the steps of: receiving data associated with a block of data at a video processor; providing a first table to a transform engine to generate a first transform of the data; providing a second table to the transform engine to generate a second transform of the data; and
  - selecting one of the first transform or the second transform dependent on a comparison of values associated with the first transform and the second transform.
- 18. (Withdrawn) The method as in Claim 17, wherein the comparison includes identifying one of the first transform or the second transform associated with smaller values.

- 19. (Original) A system comprising:
- a reader to access data associated with a block of data;
- a transform engine to transform the data according to a table;
- a table access component to:
- access said table in a first manner to perform a first transform;
- access said table in a second manner to perform a second transform, wherein the second transform is an inverse transform relative to the first transform; and
- a memory to store said data, said table, and a result from one of said first transform or said second transform.
- 20. (Original) The system as in Claim 19, wherein said block of data is associated with one of 8-8 image data or 2-4-8 image data.
- 21. (Original) The system as in Claim 19, wherein said reader includes an input port to determine one of said first manner or said second manner to access said table.
- 22. (Original) The system as in Claim 21, wherein said first manner includes accessing said table in a row-major scheme and said second manner includes accessing said table in a column-major scheme.
- 23. (Original) The system as in Claim 19, wherein said table includes a discrete cosine transform matrix and further wherein said first transform includes a forward discrete cosine transform and said second transform includes an inverse discrete cosine transform.

- 24. (Currently Amended) A system comprising:
- a reader to access data associated with a block of data, said reader to:

provide a first table to a transform engine[[,]] when the block of data is of a first type;

provide a second table to said transform engine[[,]] when the block of data is of a second type;

- said transform engine to: transform said data using one of said first table or said second table
  - when in a first mode of operation, access one of the first table or the second table in a first manner to perform a first transform; and
  - when in a second mode of operation, access one of the first table or the second table in a second manner to perform a second transform, wherein the second transform is an inverse transform relative to the first transform; and
- a memory to store said data, said first table, said second table and a transform result from said transform engine.
- 25. (Original) The system as in Claim 24, wherein the first type is 8-8 image data and the second type is 2-4-8 image data.
- 26. (Original) The system as in Claim 24, wherein said reader determines a type of data dependent on a tag associated with the block of data.
- 27. (Original) The system as in Claim 24, wherein said first table includes a discrete cosine transform associated with the first type and the said second table includes a discrete cosine transform associated with the second type.